Arizona Public Safety Broadband Network Program Update

Northern Arizona Regional Digital Conference
July 19, 2013

Public Safety Interoperable
Communications Office

Overview

- National Public Safety Broadband Network (NPSBN) Primer

- State and Local Implementation Grant Program (SLIGP) status

- Key events for April, May and June

- FirstNet Updates

- Next Steps

NPSBN Primer

- Nationwide 4G LTE network with dedicated spectrum

- Built for the needs of public safety users (primary and secondary)

- Standards based technology to provide reliability, resiliency, security, and interoperability

- $7 Billion funding for initial build-out

- Self-sustaining fee-based network with potential for public/private partnerships and sharing of State, local and Tribal infrastructure to lower costs

- Will be built and operated by FirstNet - an independent authority within the National Telecommunications & Information Administration (NTIA)

NPSBN Primer

- Public Safety wants and FirstNet recognizes that the NPSBN needs to be:

  - cheaper than current air-cards

  - more reliable than current air-cards

  - with as good or better coverage

  - available when needed (priority access when cell towers are overloaded)

SLIGP

- FirstNet is required to work with State, Local and Tribal jurisdictions to define boundaries, roles and responsibilities, and the design/build-out of the NPSBN.

- The State and Local Implementation Grant Program (SLIGP) provides $135M nationally for states to perform outreach and collect data for planning the NPSBN.

  - Arizona's portion is ~$3 million

- Two main components of the SLIGP:

  - Education and Outreach: to inform and educate public safety stakeholders statewide; to determine how the new technology may impact governance and operations

  - Data Collection: to collect agency data, coverage requirements, budget considerations, to determine possible participants and possible shared infrastructure

SLIGP Status

- The National Telecommunication and Information Agency (NTIA) issued grant guidance on February 6th and Arizona's application was submitted on the due date of March 19th

- The NTIA sent a Request for Clarification for the grant submission on May 7, 2013. The response covered:
  - Adjusting the detailed budget to align with a new sequester impacted budget (reduced by 2.3%). Adjusted totals: Federal - $2,911,147; State - $739,796
  - Converted application to a newly supplied budget detail format
  - Responded to some clarification questions
  - Final clarifications were submitted June 14, 2013 and we were informed that the proposal had passed review and was moving forward in the award process. Award notice pending.

Key Events

- April 23, 2013 – FirstNet Board meeting with the following key agenda items:

  - Introduced the new General Manager – Bill D'Agostino

  - Reported the release of an Request for Information (RFI) for user devices and there are 17 more RFIs planned

  - Discussion regarding concerns about transparency, communications and involvement of the public safety community.
    - » Board Member Paul Fitzgerald presented a motion calling for a review committee
    - » The motion was tabled, however, a committee was formed and is evaluating the actions, processes, roles and responsibilities

  - Introduced their logo:

Regional Meeting

- May 29-30, 2013 – FirstNet held a regional meeting with 11 states and territories (AK, AS, AZ, CA, Guam, HI, ID, OR, NMI, NV and WA).

- The purpose of this meeting was to begin working with the states, territories, tribes, localities and public safety organizations on the network design for FirstNet.

- The Keynote Sessions included a project update and Q&A with FirstNet Board members, Jeff Johnson and Craig Farrill:

  - The "vision" for FirstNet. This presentation is online at: http://www.ntia.doc.gov/page/firstnet-state-consultation

  - "Why so slow? Why so fast?" Johnson and Farrill answered questions from participants. They explained Federal regulations are hindering efforts to hire permanent staff and procure contract support. They emphasized the Board is aggressively pushing forward and is committed to meeting their statutory mandates.

Regional Meeting (cont.)

- State team time. Each state delegation brainstormed requirements, priorities, and concerns about the FirstNet initiative.

- Special sessions. Breakout groups addressed issues such as the SLIGP grant process, partnerships, governance and decision-making.

- Peer-to-peer exchanges. Participants worked in interstate affinity groups such as designated state points-of-contact, public safety professionals, CIOs, emergency managers, and other city/county representatives.

- Arizona attendees were:

  - Kevin Rogers, Manager, Wireless Systems Bureau, Dept. of Public Safety

  - Luke Johnson, Director Emergency Response, Ft Mojave Indian Tribe

  - Steven Campbell, Chief of Police, El Mirage Police Department

  - Greg Wilkinson, City Administrator, City of Yuma

  - Justin Turner, Deputy SWIC, PSIC Office

  - Michael Britt, PhD, Project Manager, PSIC Office

PSCR Conference

- June 4-6, 2013 – Public Safety Communications Research (PSCR) meeting. The PSCR program hosted its annual Public Safety Broadband Stakeholder Conference. The three-day conference (**agenda and slide decks**), with 500+ attendees, brought together representatives from public safety, Federal agencies, industry, and academia.

  – FirstNet's Public Safety Advisory Council (PSAC) met for the first time. Arizona has two representatives: Mike Worrell (At-large) and Councilman Scott Somers (National League of Cities)

  – Department of Homeland Security – Office of Emergency Communications gave a good presentation on Community Anchor Institutions, Critical Infrastructure and Coverage Objectives mapping available through the Broadband Technical Assistance offering

  – FirstNet board members gave keynote addresses each of the three mornings

AZDOHS Tribal Seminar

- June 11, 2013 – The PSIC Office presented information on FirstNet and the Arizona SLIGP program at the Arizona Department of Homeland Security's *2013 Homeland Security Information Seminar for Tribes* held at the Gila River Indian Community on June 11, 2013

- Fifteen of the twenty-two tribes located in Arizona were represented.

FirstNet Gaining Traction -
Vision Presentation

VISION & GUIDING PRINCIPLES

FirstNet will provide dedicated spectrum, a single technology and funding to create a nationwide network dedicated to public safety.

Public Safety Effectiveness
- Dynamic Priority Access
- Force Multiplier

Public Safety Grade
- Reliable
- Hardened
- Redundant
- Security

Public Safety Applications
- 4G data for video and web
- Non mission-critical voice

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FirstNet Gaining Traction -
Vision Presentation

PERCEPTIONS AND REALITIES

FirstNet exists to serve public safety.

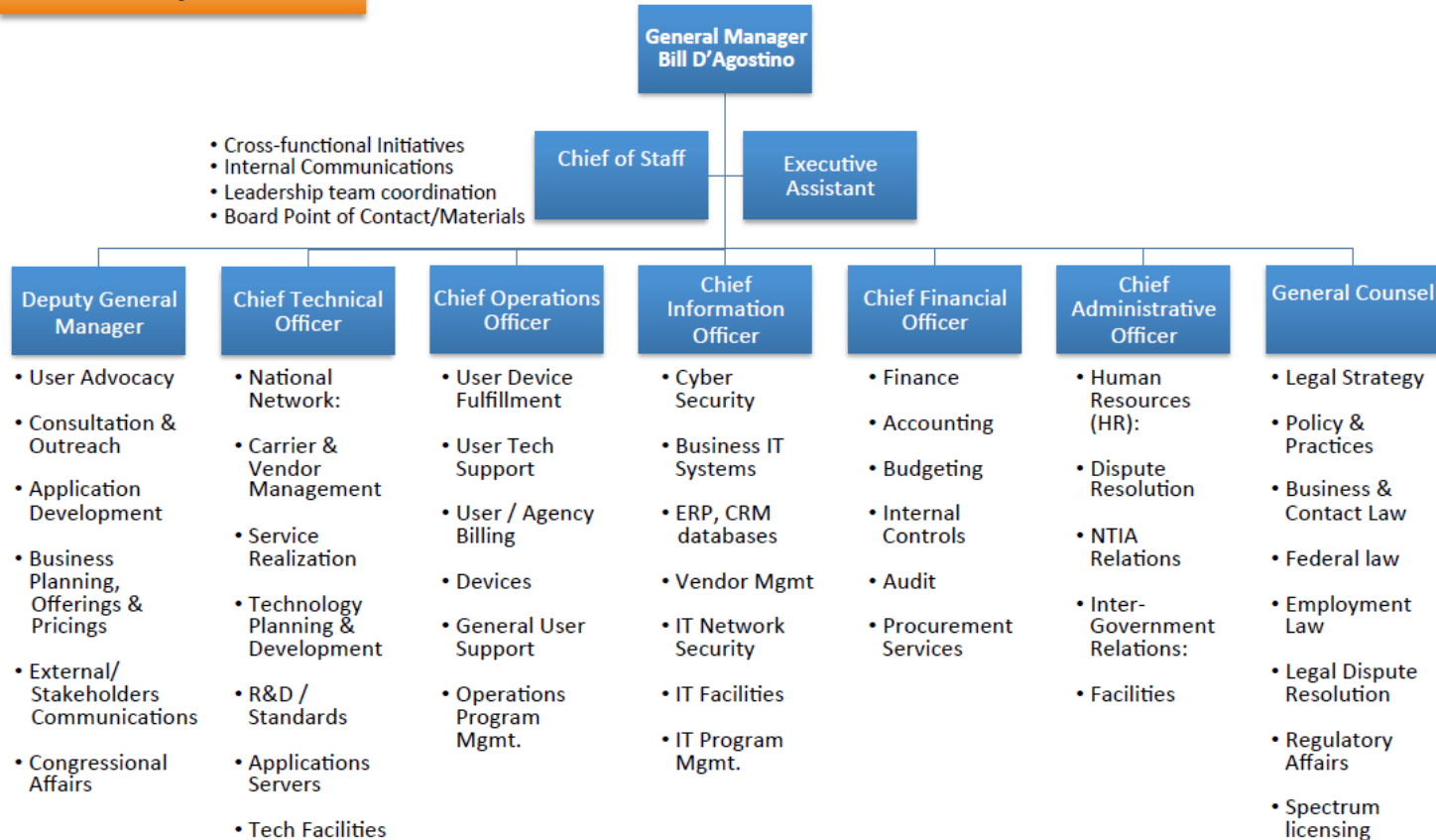| PERCEPTION	REALITY
Public safety may have to give up autonomy and control.	FirstNet will be a nationwide platform; Public safety sets rules locally.
Public safety will lose management of devices, users and talk groups.	Public safety will maintain local management.
FirstNet will cost too much to build and operate.	FirstNet has substantial opportunities to partner to lower construction and operating costs.
States can use FirstNet spectrum to generate revenue.	Fees from the use of FirstNet spectrum must , by law, be reinvested to build, operate, maintain, and improve the network.
FirstNet will replace LMR networks.	FirstNet will augment LMR for many years.
FirstNet has already begun designing the network.	FirstNet is in the research and analysis phase and must have input from states and territories to design the network.

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FirstNet Gaining Traction – Organizational Plan

Leadership Team

General Manager
Bill D'Agostino

- Cross-functional Initiatives
- Internal Communications
- Leadership team coordination
- Board Point of Contact/Materials

Chief of Staff

Executive Assistant

Deputy General Manager	Chief Technical Officer	Chief Operations Officer	Chief Information Officer	Chief Financial Officer	Chief Administrative Officer	General Counsel
• User Advocacy	• National Network:	• User Device Fulfillment	• Cyber Security	• Finance	• Human Resources (HR):	• Legal Strategy
• Consultation & Outreach	• Carrier & Vendor Management	• User Tech Support	• Business IT Systems	• Accounting	• Dispute Resolution	• Policy & Practices
• Application Development	• Service Realization	• User / Agency Billing	• ERP, CRM databases	• Budgeting	• NTIA Relations	• Business & Contact Law
• Business Planning, Offerings & Pricings	• Technology Planning & Development	• Devices	• Vendor Mgmt	• Internal Controls	• Inter-Government Relations:	• Federal law
• External/ Stakeholders Communications	• R&D / Standards	• General User Support	• IT Network Security	• Audit	• Facilities	• Employment Law
• Congressional Affairs	• Applications Servers	• Operations Program Mgmt.	• IT Facilities	• Procurement Services		• Legal Dispute Resolution
	• Tech Facilities		• IT Program Mgmt.			• Regulatory Affairs
						• Spectrum licensing

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FirstNet Issues RFIs

- July 10, 2013: FirstNet Issues RFIs on Technology for Nationwide Wireless Broadband Network

  - Media Release

  - Link to RFIs (Keyword Search: FirstNet)

- These RFIs ask for input from vendors and interested stakeholders regarding potential deployment options for two crucial portions of the network:

  - Radio Access Network (RAN)

  - Core Network

- These RFIs will enable FirstNet to gather input from equipment manufacturers, service providers and other stakeholders on possible models and partnership and technology platforms

- After FirstNet receives and analyzes responses to the RFIs, it will develop and issue Requests for Proposal (RFPs).

FirstNet Issues RFIs (cont.)

- Radio Access Network RFIs:

1. Network Partnering and RAN Provisioning

2. Antenna Systems

3. Microwave Backhaul Equipment

4. Deployables

5. Satellite Service

FirstNet Issues RFIs (cont.)

- Core Network RFIs:

6. Enhanced Packet Core (EPC)

7. Transmission/Transport

8. Data Center

9. Network Management Center/Operations Management Center (NMC/OMC)

10. Network Service Platform

Future RFIs (cont.)

- Pending RFIs:
  - eNodeB and Site Backhaul RFI
  - Network Planning Tools RFI
  - User and Network Data Analytics RFI
  - Workflow and Asset Management Tool RFI
  - Billing RFI
  - Provisioning RFI
  - User Technical Support Services RFI
  - System Integration RFI
  - Program Management RFI

FirstNet – Actions

- FirstNet has started working with the FCC to assure a streamlined regulatory process is in place for existing infrastructure sites (NEPA, permitting, etc.).

  - First for federal sites leveraging Executive Order -- Accelerating Broadband Infrastructure Deployment (EO 13616 - June 14, 2012) and then rolling the process to State, local and Tribal assets.

- FirstNet has put together an aggressive plan which looks well thought out in terms of key content and deliverables

  - One concern is the disconnect between FirstNet's schedule and the SLIGP grant timeline. The FirstNet schedule calls for development of a nationwide deployment plan prior to SLIGP recipients having the time necessary to educate/inform and get feedback from our local stakeholders.

Next Steps

- Grant award expected between July 15 – August 15

- Develop the detailed Education and Outreach Plan to assure all State, local and Tribal entities have the opportunity to attend , learn and provide feedback

- Develop detailed project and expenditure plans

- Develop Education and Outreach content working with the AZPSBN Workgroup

More Information

Track this Initiative on the PSIC Office Website Broadband page

Sign up for our Interested Parties email list

Discussion; Questions?

Thank You!

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